Index to
The Angle Orthodontist 1996;
Volume 66, Nos. 1-6

By issue number, author, and key words

Supplement to *The Angle Orthodontist* 67/1

Table of Contents

Volume 66 Nos. 1-6

Volume 66, No. 1

Editorial

3 **Adding value to case reports**
David L. Turpin, DDS, MSD

4 **Letters**
World Wide Web editorial inspires readers to write

7 **What's new in dentistry**
Vincent Kokich, DDS, MSD

Case Reports

9 **Alternative donor site for alveolar bone grafting in adults with cleft lip and palate**
Lisa L.Y. So, FRACDS (Orth), FRCD (Canada); Wilkie W.K. Lui, BDS, FRACDS

17 **Case Report CA: Cleft lip and palate with bilateral crossbites**
John R.J. Gawley, DDS, MS

21 **Case Report SS: A patient with temporomandibular joint disorders**
Hiroshi Mimura, DDS, PhD; Toshio Deguchi, DDS, MSD, PhD

Original Articles

27 **Tomographic assessment of temporomandibular joints in patients with malocclusion**
Jeff T. Cohlmia, DDS, MS; Joydeep Ghosh, BDS, MS; Pramod K. Sinha, BDS, DDS, MS; Ram S. Nanda, DDS, MS, PhD; G. Frans Currier, DDS, MSD, MEd

37 **Digital imaging of cephalometric radiography, part 1: advantages and limitations of digital imaging**
D.B. Forsyth, MSc, FDS, MOrth; W.C. Shaw, PhD, MScD, FDS, DDO, DOrth; S. Richmond, PhD, MScD, FDS, DOrth

43 **Digital imaging of cephalometric radiographs, part 2: image quality**
D.B. Forsyth, MSc, FDS, MOrth; W.C. Shaw, PhD, MScD, FDS, DDO, DOrth; S. Richmond, PhD, MScD, FDS, DOrth; C.T. Roberts, MSc

51 **Effect of head orientation on posterior anterior cephalometric landmark identification**
Paul W. Major, DDS, MSc, MRCD(C); Donald E. Johnson, DDS, MSc; Karen L. Hesse, BSc, DDS; Kenneth E. Glover, DDS, MSc, MRCD(C)

61 **Effects of fluoride application on shear bond strength of orthodontic brackets**
Paul L. Damon; Samir E. Bishara, BDS, DDS, DOrtho, MS; Marc E. Olsen, DDS; Jane R. Jakobsen, BA, MS

65 **RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands**
Peter Reichl, DDS, MS; Allan G. Farman, BDS, PhD(odont); William C. Scarfe, BDS, MS; L. Jane Goldsmith, PhD

73 **Stability of the palatal rugae as landmarks for analysis of dental casts in extraction and nonextraction cases**
L'Tanya J. Bailey, DDS, MS; Abbas Esmailnejad, DDS; Marco Antonio Almeida, DDS, MSD

79 **Information for authors**

Volume 66, No. 2

Guest Editorial

83 **Tooth numbering progress**
Sheldon Peck, DDS, MScD; Leena Peck, DMD, MSC

84 **Editor's note**

85 **Letters**

87 **What's new in dentistry**
Vincent Kokich, DDS, MSD

Case Report

89 **Case Report SB: Long-term follow-up on Class II treatment with first molar extractions**
G. Richard Safirstein, DMD

Original Articles

95 **The anterior alveolus: its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae**
Chester S. Handelman, DMD

Commentary
Robert M. Rubin, DMD

111 **Partitioning the components of maxillary tooth displacement by the comparison of data from three cephalometric superimpositions**
Sheldon Baumrind, DDS, MS; Yocheved Ben-Bassat, DMD; Luis Alberto Bravo, MD, DDS, MS, PhD; Sean Curry, PhD; Edward L. Korn, PhD

125 **Association between the direction of orthopedic headgear force and sutural responses in the nasomaxillary complex**
Kazuo Tanne, DDS, PhD; Susumu Matsubara, DDS, PhD

131 **A postretention study of patients presenting with a maxillary median diastema**
Terence C. Sullivan, DDS, MSD; David L. Turpin, DDS, MSD; Jon Årtun, DDS, Dr Odont

139 **Stability of changes associated with chin cup treatment**
Toshio Deguchi, DDS,MSD, PhD; Asahi Kitsugi, DDS, PhD

147 **Transposition of teeth and genetic etiology**
Amit Chattopadhyay, BDS (Hons), DcFM, MSASMS, MDS; K. Srinivas, BDS

Opinion Article

153 **Centric relation treatment and articulator mountings in orthodontics**
Frank E. Cordray, DDS, MS

159 **Information for authors**

Table of Contents

Volume 66 Nos. 1-6

Volume 66, No. 3

Editorial

163 **Check out OUR home page http://weber.u.washington.edu/~dentstry/angle-orthodontist.htm**
David L. Turpin, DDS, MSD

165 **Letters**

167 **What's new in dentistry**
Vincent Kokich, DDS, MSD

Case Reports

169 **Case Report: Implants as anchorage for molar uprighting and intrusion**
W. Craig Shellhart, DDS, MS; Maged Moawad, DDS, MPh, MS; Preston Lake, DMD

173 **Orthodontic treatment for a patient after menopause**
Kuniaki Miyajima, DDS, MS, PhD; Kunishige Nagahara, DDS, PhD; Tetsuo Iizuka, DDS, PhD

Commentary by Anne-Marie Bollen, DDS, MS, PhD

Original Articles

181 **Three-dimensional facial analysis using a video imaging system**
Ram S. Nanda, DDS, MS, PhD; Joydeep Ghosh, BDS, MS; Eleni Bazakidou, DDS

189 **A comparison of three-dimensional and two-dimensional analyses of facial motion**
M. Melissa Gross, PhD; Carroll-Ann Trotman, BDS, MA, MS; Kelly S. Moffatt, BS

195 **Reliability of a three-dimensional method for measuring facial animation: a case report**
Carroll-Ann Trotman, BDS, MA, MS; M. Melissa Gross, PhD; Kelly Moffatt, BS

199 **The morphologic structure of the openbite in adult Taiwanese**
Chia-Tze. Kao, DDS, MMS; Fu-Ming, Chen, DDS; Tsai-Yuan, Lin, DDS; Chung-Huei, Peng, DDS; Tsui-Hsien, Huang, DDS

207 **The effect of sandblasting on the retention of orthodontic bands**
David P. Wood, DDS, MCID; Glenn J. Paleczny, DDS, MCID; Leonard N. Johnson, BSc, MSc, PhD

215 **Frictional resistance between orthodontic brackets and archwires in the buccal segments**
Nigel G. Taylor, MDSc, BDS, FDS RCS(Ed), MORTH RCS(Ed); Keith Ison, MA, MSc, PhD, MBA, MIPSM

223 **Changes in masseter muscle activity during orthodontic treatment evaluated by a 24-hour EMG system**
Keisuke Miyamoto, DDS, PhD; Yasuo Ishizuka, DDS; Kazuo Tanne, DDS, PhD

229 **Long-term stability of mandibular incisors following successful treatment of Class II, Division 1, malocclusions**
Jon Årtun, DDS, Dr Odont; James D. Garol, DDS, MSD; Robert M. Little, DDS, MSD, PhD

Volume 66, No. 4

Editorial

243 **Brief communications**
David L. Turpin, DDS, MSD

244 **Letters**

247 **What's new in dentistry**

Original Articles

249 **Lip adaptation to simulated dental arch expansion. Part 1: Reliability and precision of two lip pressure measurement mechanisms**
W. Craig Shellhart, DDS, MS; Maged I. Moawad, DDS, MS; Robert L. Paterson; James Matheny, PhD

255 **Lip adaptation to simulated dental arch expansion. Part 2: One week of simulated expansion**
Maged I. Moawad, DDS, MPH; W. Craig Shellhart, DDS, MS; James Matheny, PhD; Robert L. Paterson; E. Preston Hicks

261 **A study of maximum bite force during growth and development**
Stanley Braun, DDS, MME; William P. Hnat, PhD; Josef W. Freudenthaler, DDS; Michael R. Marcotte, DDS, MSD; Klaus Hönigle, DDS; Baxter E. Johnson, DDS, MS, FACD

265 **Dimensional differences in the craniofacial morphologies of groups with deep and shallow mandibular antegonial notching**
A.H.D. Lambrechts, BChD, Hons-BChD, MSc; A.M.P. Harris, BChD, Hons-BSc, DTE, MChD, FFD; P.E. Rossouw, BSc, BChD, Hons-BChD, MChD; I. Stander, BSc, Hons-BSc, MSc

273 **A tongue retaining device and sleep-state genioglossus muscle activity in patients with obstructive sleep apnea**
Takashi Ono, DDS, PhD; Alan A. Lowe, DMD, PhD, FRCD(C); Kathleen A. Ferguson, BSc, MD, FRCP(C); John A. Fleetham, MD, FRCP(C)

281 **Laser-aided degradation of composite resin**
Brian W. Thomas, DMD; Charles R. Hook, DMD; Robert A. Draughn, DSc

287 **Extraction of maxillary second molars in the treatment of Class II malocclusion**
Efthimia K. Basdra, DDS, Dr.med.dent; Angelika Stellzig, DDS, Dr.med.dent; Gerda Komposch, DDS, PhD

293 **Recording condylar movement with two facebow systems**
Stephen Thomas Hicks, BA, DDS, MCID; David P. Wood, DDS, MCID

301 **The effect of rapid maxillary expansion on conductive hearing loss**
İsmail Ceylan, DDS, PhD; Hüsamettin Oktay, DDS, PhD; Münir Demirci, MD

Brief Communications

309 **A three-year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets**
James R. Miller, DDS, MSD; Lloyd Mancl, PhD; Gordon Arbuckle, DDS, MSD; James Baldwin, DDS, MSD; Ralph W. Phillips, DSc

313 **Effect of applying chlorhexidine antibacterial agent on the shear bond strength of orthodontic brackets**
Samir E. Bishara, BDS, DDS, DOrtho, MS; Paul L. Damon, DDS; Marc E. Olsen, DDS; Jane R. Jakobsen, BA, MS

317 **In Memory**
Author Edward Lewis

318 **Errata**

Volume 66, No. 5

Editorial

323 **Interactivity key to success of online journals**
David L. Turpin, DDS, MSD

Case Report

327 **Case Report CT: A multi-disciplinary approach to treatment, including orthognathic surgery, endodontics, periodontics, and implants for anchorage and restoration**
David J. Harnick, DDS, MSD

Original Articles

331 **Rate of mesial translation of mandibular molars using implant-anchored mechanics**
W. Eugene Roberts, DDS, PhD; Gordon R. Arbuckle, DDS, MSD; Mostafa Analoui, PhD

339 **The effect of acetaminophen, ibuprofen, and misoprostol on prostaglandin E2 synthesis and the degree and rate of orthodontic tooth movement**
Michael J. Kehoe, DDS, MS; Steven M. Cohen, DMD, MSD; Kourosh Zarrinnia, DMD, MS; Alan Cowan, PhD

351 **Changes following the use of protraction headgear for early correction of Class III malocclusion**
Yea-Hwe Chong, BDS, MSc, MDS, MSD; John C. Ive, DDS, MSD; Jon Årtun, DDS, Dr. Odont

363 **Sagittal skeletal and dental changes of reverse headgear treatment in Chinese boys with complete unilateral cleft lip and palate**
Kam-fai Chen, BDS, MDS; Lisa Lai-ying So, BDS, MDS, FHKAM (Dental Surgery), FRCD (Canada), FRACDS (Orth)

373 **Ectopic eruption of maxillary first permanent molars in children with cleft lip**
Omar Gabriel da Silva Filho; Marcos Vanetti Prado De Albuquerque; Jüri Kurol

381 **Imprecision in orthodontic diagnosis: Reliability of clinical measures of malocclusion**
Stephen D. Keeling, DDS, MS; Susan McGorray, PhD; Timothy T. Wheeler, DDS, PhD; Gregory J. King, DMD, DMSc

393 **Soft tissue growth of the oropharynx**
Michael Taylor, DDS, MSD; Mark G. Hans, DDS, MSD; Kingman P.Strohl, MD, MPH; Suchitra Nelson, PhD; B. Holly Broadbent, DDS

Volume 66, No. 6

Editorial

403 **Change—the only constant**
David L. Turpin, DDS, MSD

404 **Letters**

405 **What's new in dentistry**
Vincent Kokich, DDS, MSD

Feature Article

407 **Clinical and scientific applications/advances in video imaging**
John E. Grubb, DDS, MSD; Tim Smith, BS, DDS; Peter Sinclair, DDS, MSD

Original Articles

417 **Changes in the dental arches and dentition between 25 and 45 years of age**
Samir E. Bishara, BDS, MSD Ortho, MS; Jean E. Treder, DDS, MS; Paul Damon; Mark Olsen

423 **Risk factors associated with incisor injury in elementary school children**
Michael J. Kania, DDS; Stephen D. Keeling, DDS, MS; Susan P. McGorray, PhD; Timothy T. Wheeler, DMD, PhD; Gregory J. King, DMD, DMSc

433 **Accuracy of a commercially available digitizer: A new method for assessment of errors in linearity**
Luc P.M. Tourne, DDS, MS

441 **Quantitative comparison of computerized discrete and animated profile preferences**
Donald B. Giddon, DMD, PhD; Regina Sconzo, DMD; Jason A. Kinchen, BA; Carla A. Evans, DDS, DMSc

449 **The effects of soft drinks on etched and sealed enamel**
J. Michael Steffen, DDS, MS

457 **Anterior arch circumference adjustment - how much?**
C.L. Steyn, BChD, MChD; A.M.P. Harris, BChD, HonsBSc, MChD, FFD(SA)Orth; R.J. du Preez, BSc(Eng), MS, DrEng

463 **A holographic study of variations in bone deformations resulting from different headgear forces in a macerated human skull**
Andrej Zentner, BDS, PhD; Hans Georg Sergl, DMD, Dipl-Psychol; Georgios Filippidis, DMD

Brief Communications

473 **Site-specificity of tooth agenesis in subjects with maxillary canine malpositions**
Sheldon Peck, DDS, MScD; Leena Peck, DMD, MSD; Matti Kataja, PhD

477 **Impacted canine in a prehistoric skull**
Senka Rajic, DDS, MS; Zelimir Muretic, DDS, PhD; Sanja Percac, MD, PhD

Author Index

Volume 66 Nos. 1-6

Complete listing under primary author

Albuquerque MVP – see Silva Filho OG

Almeida MA – see Bailey LJ

Analoui M – see Roberts WE

Arbuckle G – see Miller JR

Arbuckle GR – see Roberts WE

Årtun J – see Chong Y-H

Årtun J –see Sullivan TC

Årtun J, Garol JD, Little RM. Long-term stability of mandibular incisors following successful treatment of Class II, Division 1, malocclusions. Angle Orthod 1996;66(3):229-238

Bailey LJ, Esmailnejad A, Almeida MA. Stability of the palatal rugae as landmarks for analysis of dental casts in extraction and nonextraction cases. Angle Orthod 1996;66(1):73-78.

Baldwin J – see Miller JR

Basdra EK, Stellzig A, Komposch G. Extraction of maxillary second molars in the treatment of Class II malocclusion Angle Orthod 1996;66(4):287-292.Baumrind S, Ben-Bassat Y, Bravo LA, Curry S, Korn EL. Partitioning the components of maxillary tooth displacement by the comparison of data from three cephalometric superimpositions. Angle Orthod 1996;66(2):111-124.

Bazakidou E – see Nanda R

Ben-Bassat Y – see Baumrind S

Bishara SE – see Damon PL

Bishara SE, Damon PL, Olsen ME, Jakobsen JR. Effect of applying chlorhexidine antibacterial agent on the shear bond strength of orthodontic brackets Angle Orthod 1996;66(4):313-316.

Bishara SE, Treder JE, Damon P, Olsen M Changes in the dental arches and dentition between 25 and 45 years of age. Angle Orthod 1996;66(6):417-422.

Bollen AM. Commentary on: Orthodontic treatment for a patient after menopause. Angle Orthod 1996;66(3):180:

Braun S, Hnat WP, Freudenthaler JW, Marcotte MR, Hönigle K, Johnson BE. A study of maximum bite force during growth and development Angle Orthod 1996;66(4):261-264.

Bravo LA –see Baumrind S

Broadbent BH –see Taylor M

Ceylan Í, Oktay H, Demirci M. The effect of rapid maxillary expansion on conductive hearing loss. Angle Orthod 1996;66(4):301-308.

Chattopadhyay A, Srinivas K. Transposition of teeth and genetic etiology. Angle Orthod 1996;66(2):147-152.

Chen FM – see Kao CT

Chen KF, So LLY. Sagittal skeletal and dental changes of reverse headgear treatment in Chinese boys with complete unilateral cleft lip and palate. Angle Orthod 1996;66(5):363-372.

Chong Y-H, Ive JC, Årtun J. Changes following the use of protraction headgear for early correction of Class III malocclusion. Angle Orthod 1996;66(5):351-362.

Cohen SM – see Kehoe MJ

Cohlmia JT, Ghosh J, Sinha PK, Nanda RS, Currier GF. Tomographic assessment of temporomandibular joints in patients with malocclusion. Angle Orthod 1996;66(1):27-36.

Cordray FE. Opinion Article: Centric relation treatment and articulator mountings in orthodontics. Angle Orthod 1996;66(2):153-158.

Cowan A – see Kehoe MJ

Currier GF – see Cohlmia JT

Curry S – see Baumrind S

Damon P – see Bishara SE

Damon PL – see Bishara SE

Damon PL, Bishara SE, Olsen ME, Jakobsen JR. Effects of fluoride application on shear bond strength of orthodontic brackets. Angle Orthod 1996;66(1):61-64.

Deguchi T – see Mimura H

Deguchi T, Kitsugi A. Stability of changes associated with chin cup treatment. Angle Orthod 1996;66(2):139-146.

Demirci M – see Ceylan Í

Draughn RA – see Thomas BW

du Preez RJ – see Steyn CL

Esmailnejad A – see Bailey LJ

Evans CA – see Giddon DB

Farman AG – see Reichl P

Ferguson KA – see Ono T

Filippidis G – see Zentner A

Fleetham JA – see Ono T

Forsyth DB, Shaw WC, Richmond S. Digital imaging of cephalometric radiography, part 1: advantages and limitations of digital imaging. Angle Orthod 1996;66(1):37-42.

Forsyth DB, Shaw WC, Richmond S, Roberts CT. Digital imaging of cephalometric radiographs, part 2: image quality. Angle Orthod 1996, 66(1):43-50.

Freudenthaler JW – see Braun S

Garol JD – see Årtun J

Gawley JRJ. Case Report CA: Cleft lip and palate with bilateral crossbites. Angle Orthod 1996, 66(1):17-20.

Ghosh J – see Cohlmia JT

Ghosh J – see Nanda R

Giddon DB, Sconzo R, Kinchen JA, Evans CA. Quantitative comparison of computerized discrete and animated profile preferences. Angle Orthod 1996;66(6):441-448.

Glover KE – see Major PW

Goldsmith LJ – see Reichl P

Gross MM – see Trotman CA

Gross MM, Trotman C-A, Moffatt KS. A comparison of three-dimensional and two-dimensional analyses of facial motion. Angle Orthod 1996;66(3):189-194.

Grubb JE, Smith T, Sinclair P. Clinical and scientific applications/advances in video imaging. Angle Orthod 1996;66(6):407-416.

Handelman CS. The anterior alveolus: its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae. Angle Orthod 1996;66(2):95-110.

Hans MG – see Taylor M

Harnick DJ. Case Report CT: A multidisciplinary approach to treatment, including orthognathic surgery, endodontics, periodontics, and

implants for anchorage and restoration. Angle Orthod 1996;66(5): 327-330.

Harris AMP – see Lambrechts AHD

Harris AMP – see Steyn CL

Hesse KL – see Major PW

Hicks EP – see Moawad MI

Hicks ST, Wood DP. Recording condylar movement with two facebow systems. Angle Orthod 1996;66(4):293-300.

Hnat WP – see Braun S

Hönigle K – see Braun S

Hook CR – see Thomas BW

Hook CR – see Thomas BW

Huang TH – see Kao CT

Iizuka T – see Miyajima K

Ishizuka Y – see Miyamoto K

Ison K – see Taylor NG

Ive JC – see Chong Y-H

Jakobsen JR – see Bishara SE

Jakobsen JR – see Damon PL

Johnson BE – see Braun S

Johnson DE – see Major PW

Johnson LN – see Wood DP

Kao CT, Chen FM, Lin TY, Peng CH, Huang TH. The morphologic structure of the openbite in adult Taiwanese. Angle Orthod 1996;66(3):199-206.

Kataja M – see Peck S

Keeling SD, McGorray S, Wheeler TT, King GJ. Imprecision in orthodontic diagnosis: Reliability of clinical measures of malocclusion. Angle Orthod 1996;66(5):381-392.

Kehoe MJ, Cohen SM, Zarrinnia K, Cowan A. The effect of acetaminophen, ibuprofen, and misoprostol on prostaglandin E_2 systhesis and the degree and rate of orthodontic tooth movement. Angle Orthod 1996;66(5):339-350.

Kinchen JA – see Giddon DB

King GJ – see Keeling SD

Kitsugi A – see Deguchi T

Komposch G – see Basdra EK

Korn EL – see Baumrind S

Kurol J – see Silva Filho OG

Lake P – see Shellhart WC

Lambrechts AHD, Harris AMP, Rossouw PE, Stander I. Dimensional differences in the craniofacial morphologies of groups with deep and shallow mandibular antegonial notching Angle Orthod 1996;66(4):Angle Orthod 1996;66(4):265-272.-272.

Lin TY – see Kao CT

Little RM – see Årtun J

Lowe AA – see Ono T

Lui WWK – see So LLY

Major PW, Johnson DE, Hesse KL, Glover KE. Effect of head orientation on posterior anterior cephalometric landmark identification. Angle Orthod 1996;66(1):51-60.

Mancl L – see Miller JR

Marcotte MR – see Braun S

Matheny J – see Moawad MI

Matheny J – see Shellhart WC

Matsubara S –see Tanne K

McGorray S – see Keeling SD

Miller JR, Mancl L, Arbuckle G, Baldwin J, Phillips RW. A three-year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets. Angle Orthod 1996;66(4):309-312.

Mimura H, Deguchi T. Case Report SS: A patient with temporomandibular joint disorders. Angle Orthod 1996;66(1):21-26.

Miyajima K, Nagahara K, Iizuka T. Case Report: Orthodontic treatment for a patient after menopause. Angle Orthod 1996;66(3):173-180.

Miyamoto K, Ishizuka Y, Tanne K. Changes in masseter muscle activity during orthodontic treatment evaluated by a 24-hour EMG system Angle Orthod 1996;66(3):223-228.

Moawad MI – see Shellhart WC

Moawad MI, Shellhart WC, Matheny J, Paterson RL, Hicks EP. Lip adaptation to simulated dental arch expansion. Part 2: One week of simulated expansion. Angle Orthod 1996;66(4):255-260.

Moffatt K – see Trotman CA

Moffatt KS – see Gross MM

Muretic Z – see Rajic S

Nagahara K – see Miyajima K

Nanda R, Ghosh J, Bazakidou E. Three-dimensional facial analysis using a video imaging system. Angle Orthod 1996;66(3):181-188.

Nanda RS – see Cohlmia JT

Nelson S – see Taylor M

Oktay H – see Ceylan İ

Olsen M – see Bishara SE

Olsen ME – see Bishara SE

Olsen ME – see Damon PL

Ono T, Lowe AA, Ferguson KA, Fleetham JA. A tongue retaining device and sleep-state genioglossus muscle activity in patients with obstructive sleep apnea. Angle Orthod 1996;66(4):273-280.

Paleczny GJ – see Wood DP

Paterson RL – see Moawad MI

Paterson RL – see Shellhart WC

Peck L – see Peck S

Peck S, Peck L, Kataja M. Site-specificity in subjects with maxillary canine malpositions mechanics. Angle Orthod 1996;66(6):473-476.-476.

Peng CH – see Kao CT

Percac S – see Rajic S

Phillips RW – see Miller JR

Rajic S, Muretic Z, Percac S. Impacted canine in a prehistoric skull. Angle Orthod 1996;66(6):477-480.

Reichl P, Farman AG, Scarfe WC, Goldsmith LJ. RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands. Angle Orthod 1996;66(1):65-72.

Richmond S – see Forsyth DB

Richmond S. – see Forsyth DB

Roberts CT – see Forsyth DB

Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Rossouw PE – see Lambrechts AHD

Rubin RM. Commentary on: The anterior alveolus: its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae. Angle Orthod 1996;66(2):110.

Safirstein GR. Case Report SB: Long-term follow-up on Class II treatment with first molar extractions. Angle Orthod 1996;66(2):89-94.

Scarfe WC – see Reichl P

Sconzo R – see Giddon DB

Sergl HG – see Zentner A

Shaw WC – see Forsyth DB

Shellhart WC – see Moawad MI

Shellhart WC, Moawad M, Lake P. Case Report: Implants as anchorage for molar uprighting and intrusion. Angle Orthod 1996;66(3):169-172.

Shellhart WC, Moawad MI, Paterson RL, Matheny J. Lip adaptation to simulated dental arch expansion. Part 1: Reliability and precision of two lip pressure measurement mechanisms. Angle Orthod 1996;66(4):249-254.

Silva Filho OG, Albuquerque MVP, Kurol J. Ectopic eruption of maxillary first permanent molars in children with cleft lip. Angle Orthod 1996;66(5):373-380.

Sinclair P – see Grubb JE

Sinha PK – see Cohlmia JT

Smith T – see Grubb JE

So LLY – see Chen KF

So LLY, Lui WWK. Alternative donor site for alveolar bone grafting in adults with cleft lip and palate. Angle Orthod 1996(6):9-16.

Srinivas K –see Chattopadhyay A

Stander I – see Lambrechts AHD

Steffen JM. The effects of soft drinks on etched and sealed enamel. Angle Orthod 1996;66(6):449-456.

Stellzig A – see Basdra EK

Steyn CL, Harris AMP, du Preez RJ. Anterior arch circumference adjustment - how much? Angle Orthod 1996;66(6):457-462.

Strohl KP – see Taylor M

Sullivan TC, Turpin DL, Årtun J. A postretention study of patients presenting with a maxillary median diastema. Angle Orthod 1996;66(2):131-138.

Tanne K – see Miyamoto K

Tanne K, Matsubara S. Association between the direction of orthopedic headgear force and sutural responses in the nasomaxillary complex. Angle Orthod 1996;66(2):125-130.

Taylor M, Hans MG, Strohl KP, Nelson S, Broadbent. Soft tissue growth of the oropharynx. Angle Orthod 1996;66(5):393-400.

Taylor NG, Ison K. Frictional resistance between orthodontic brackets and archwires in the buccal segments. Angle Orthod 1996;66(3):215-222.

Thomas BW, Hook CR, Draughn RA. Laser-aided degradation of composite resin. Angle Orthod 1996;66(4):281-286.

Thomas BW, Hook CR, Draughn RA. Laser-aided degradation of composite resin. Angle Orthod 1996;66(4):281-286.

Tourne LPM. Accuracy of a commercially available digitizer: A new method for assessment of errors in linearity. Angle Orthod 1996;66(6):433-440.

Treder JE – see Bishara SE

Trotman C-A – see Gross MM

Trotman CA, Gross MM, Moffatt K. Reliability of a three-dimensional method for measuring facial animation: A case report. Angle Orthod 1996;66(3):195-198

Turpin DL –see Sullivan TC

Wheeler TT – see Keeling SD

Wood DP – see Hicks ST

Wood DP, Paleczny GJ, Johnson LN. The effect of sandblasting on the retention of orthodontic bands. Angle Orthod 1996;66(3):207-214.

Zarrinnia K – see Kehoe MJ

Zentner A, Sergl HG, Filippidis G. A holographic study of variations in bone deformation resulting from different headgear forces in a macerated human skull. Angle Orthod 1996;66(6):463-472.

Subject Index

Volume 66
Nos. 1-6

24-hour EMG system
Miyamoto K, Ishizuka Y, Tanne K. Changes in masseter muscle activity during orthodontic treatment evaluated by a 24-hour EMG system Angle Orthod 1996;66(3):223-228.

A

Abnormal frenum
Sullivan TC, Turpin DL, Årtun J. A postretention study of patients presenting with a maxillary median diastema. Angle Orthod 1996;66(2):131-138.

Adaptation
Moawad MI, Shellhart WC, Matheny J, Paterson RL, Hicks EP. Lip adaptation to simulated dental arch expansion. Part 2: One week of simulated expansion. Angle Orthod 1996;66(4):255-260.

Adults
So LLY, Lui WWK. Alternative donor site for alveolar bone grafting in adults with cleft lip and palate. Angle Orthod 1996(6):9-16.

Alveolar bone graft
So LLY, Lui WWK. Alternative donor site for alveolar bone grafting in adults with cleft lip and palate. Angle Orthod 1996(6):9-16.

Alveolar width
Handelman CS. The anterior alveolus: its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae. Angle Orthod 1996;66(2):95-110.

Anchorage
Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using

Subject Index

Volume 66 Nos. 1-6

Complete listing under primary author

implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Antegonial notch
Lambrechts AHD, Harris AMP, Rossouw PE, Stander I. Dimensional differences in the craniofacial morphologies of groups with deep and shallow mandibular antegonial notching Angle Orthod 1996;66(4):265-272.

Anterior crossbite
Deguchi T, Kitsugi A. Stability of changes associated with chin cup treatment. Angle Orthod 1996;66(2):139-146.

Archwire
Taylor NG, Ison K. Frictional resistance between orthodontic brackets and archwires in the buccal segments. Angle Orthod 1996;66(3):215-222.

Articulator
Hicks ST, Wood DP. Recording condylar movement with two facebow systems. Angle Orthod 1996;66(4):293-300.

B

Bite force
Braun S, Hnat WP, Freudenthaler JW, Marcotte MR, Hönigle K, Johnson BE. A study of maximum bite force during growth and development. Angle Orthod 1996;66(4):261-264.

Bolton discrepancy
Steyn CL, Harris AMP, du Preez RJ. Anterior arch circumference adjustment - how much? Angle Orthod 1996;66(6):457-462.

Bond strength
Bishara SE, Damon PL, Olsen ME, Jakobsen JR. Effect of applying chlorhexidine antibacterial agent on the shear bond strength of orthodontic brackets. Angle Orthod 1996;66(4):313-316.

Bonding
Damon PL, Bishara SE, Olsen ME, Jakobsen JR. Effects of fluoride application on shear bond strength of orthodontic brackets. Angle Orthod 1996;66(1):61-64.

Bone
Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Borderline surgical case
Handelman CS. The anterior alveolus: its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae. Angle Orthod 1996;66(2):95-110.

Bracket
Taylor NG, Ison K. Frictional resistance between orthodontic brackets and archwires in the buccal segments. Angle Orthod 1996;66(3):215-222.

Bracket failure
Miller JR, Mancl L, Arbuckle G, Baldwin J, Phillips RW. A three-year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets. Angle Orthod 1996;66(4):309-312.

C

Canine, impacted
Peck S, Peck L, Kataja M. Site-specificity in subjects with maxillary canine malpositions mechanics. Angle Orthod 1996;66(6):mechanics. Angle Orthod 1996;66(6):473-476.

Case report
Harnick DJ. Case Report CT: A multidisciplinary approach to treatment, including orthognathic surgery, endodontics, periodontics, and implants for anchorage and restoration. Angle Orthod 1996;66(5): 327-330.

Gawley JRJ. Case Report CA: Cleft lip and palate with bilateral crossbites Angle Orthod 1996, 66(1):17-20.

Mimura H, Deguchi T. Case Report SS: A patient with temporomandibular joint disorders. Angle Orthod 1996;66(1):21-26.

Miyajima K, Nagahara K, Iizuka T. Case Report: Orthodontic treatment for a patient after menopause. Angle Orthod 1996;66(3):173-180.

Safirstein GR. Case Report SB: Long-term follow-up on Class II treatment with first molar extractions. Angle Orthod 1996;66(2):89-94.

Shellhart WC, Moawad M, Lake P. Case Report: Implants as anchorage for molar uprighting and intrusion. Angle Orthod 1996;66(3):169-172.

Cement
Wood DP, Paleczny GJ, Johnson LN. The effect of sandblasting on the retention of orthodontic bands. Angle Orthod 1996;66(3):207-214.

Center of resistance
Tanne K, Matsubara S. Association between the direction of orthopedic headgear force and sutural responses in the nasomaxillary complex. Angle Orthod 1996;66(2):125-130.

Centric relation
Hicks ST, Wood DP. Recording condylar movement with two facebow systems. Angle Orthod 1996;66(4):293-300.

Cephalometrics
Baumrind S, Ben-Bassat Y, Bravo LA, Curry S, Korn EL. Partitioning the components of maxillary tooth displacement by the comparison of data from three cephalometric superimpositions. Angle Orthod 1996;66(2):111-124.

Forsyth DB, Shaw WC, Richmond S. Digital imaging of cephalometric radiography, part 1: advantages and limitations of digital imaging. Angle Orthod 1996;66(1):37-42.

Forsyth DB, Shaw WC, Richmond S, Roberts CT. Digital imaging of cephalometric radiographs, part 2: image quality. Angle Orthod 1996, 66(1):43-50.

Lambrechts AHD, Harris AMP, Rossouw PE, Stander I. Dimensional differences in the craniofacial morphologies of groups with deep and shallow mandibular antegonial notching Angle Orthod 1996;66(4):265-272.

Major PW, Johnson DE, Hesse KL, Glover KE. Effect of head orientation on posterior anterior

Subject Index

cephalometric landmark identification. Angle Orthod 1996;66(1):51-60.

Taylor M, Hans MG, Strohl KP, Nelson S, Broadbent. Soft tissue growth of the oropharynx. Angle Orthod 1996;66(5):393-400.

Tourne LPM. Accuracy of a commercially available digitizer: A new method for assessment of errors in linearity. Angle Orthod 1996;66(6):433-440.

Chin cup
Deguchi T, Kitsugi A. Stability of changes associated with chin cup treatment. Angle Orthod 1996;66(2):139-146.

Chlorhexidine
Bishara SE, Damon PL, Olsen ME, Jakobsen JR. Effect of applying chlorhexidine antibacterial agent on the shear bond strength of orthodontic brackets Angle Orthod 1996;66(4):313-316.

Class II treatment
Basdra EK, Stellzig A, Komposch G. Extraction of maxillary second molars in the treatment of Class II malocclusion Angle Orthod 1996;66(4):287-292.

Class III malocclusion
Chong Y-H, Ive JC, Artun J. Changes following the use of protraction headgear for early correction of Class III malocclusion. Angle Orthod 1996;66(5):351-362.

Cleft lip and palate
Silva Filho OG, Albuquerque MVP, Kurol J. Ectopic eruption of maxillary first permanent molars in children with cleft lip. Angle Orthod 1996;66(5):373-380.

Gawley JRJ. Case Report CA: Cleft lip and palate with bilateral crossbites Angle Orthod 1996, 66(1):17-20.

So LLY, Lui WWK. Alternative donor site for alveolar bone grafting in adults with cleft lip and palate. Angle Orthod 1996(6):9-16.

Communication, interspecialty
Grubb JE, Smith T, Sinclair P. Clinical and scientific applications/advances in video imaging. Angle Orthod 1996;66(6):407-416.

Composite resin
Thomas BW, Hook CR, Draughn RA.Laser-aided degradation of composite resin. Angle Orthod 1996;66(4):281-286.

Computer imaging
Giddon DB, Sconzo R, Kinchen JA, Evans CA. Quantitative comparison of computerized discrete and animated profile preferences. Angle Orthod 1996;66(6):441-448.

Conductive hearing loss
Ceylan İ, Oktay H, Demirci M. The effect of rapid maxillary expansion on conductive hearing loss Angle Orthod 1996;66(4):301-308.

Condylar displacement
Hicks ST, Wood DP. Recording condylar movement with two facebow systems. Angle Orthod 1996;66(4):293-300.

Condylar position
Cohlmia JT, Ghosh J, Sinha PK, Nanda RS, Currier GF. Tomographic assessment of temporomandibular joints in patients with malocclusion. Angle Orthod 1996;66(1):27-36.

Corrected tomograms
Cohlmia JT, Ghosh J, Sinha PK, Nanda RS, Currier GF. Tomographic assessment of temporomandibular joints in patients with malocclusion. Angle Orthod 1996;66(1):27-36.

Craniofacial growth
Baumrind S, Ben-Bassat Y, Bravo LA, Curry S, Korn EL. Partitioning the components of maxillary tooth displacement by the comparison of data from three cephalometric superimpositions. Angle Orthod 1996;66(2):111-124.

Craniofacial suture
Tanne K, Matsubara S. Association between the direction of orthopedic headgear force and sutural responses in the nasomaxillary complex. Angle Orthod 1996;66(2):125-130.

D

Decalcification
Steffen JM. The effects of soft drinks on etched and sealed enamel. Angle Orthod 1996;66(6):449-456.

Dental arch expansion
Moawad MI, Shellhart WC, Matheny J, Paterson RL, Hicks EP. Lip adaptation to simulated dental arch expansion. Part 2: One week of simulated expansion. Angle Orthod 1996;66(4):255-260.

Dental arches
Bishara SE, Treder JE, Damon P, Olsen M. Changes in the dental arches and dentition between 25 and 45 years of age. Angle Orthod 1996;66(6):417-422.

Dental cast analysis
Bailey LJ, Esmailnejad A, Almeida MA. Stability of the palatal rugae as landmarks for analysis of dental casts in extraction and nonextraction cases. Angle Orthod 1996;66(1):73-78.

Dental enamel
Thomas BW, Hook CR, Draughn RA.Laser-aided degradation of composite resin. Angle Orthod 1996;66(4):281-286.

Dental radiography
Reichl P, Farman AG, Scarfe WC, Goldsmith LJ. RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands. Angle Orthod 1996;66(1):65-72.

Diastema
Sullivan TC, Turpin DL, Årtun J.A postretention study of patients presenting with a maxillary median diastema. Angle Orthod 1996;66(2):131-138.

Digital imaging
Forsyth DB, Shaw WC, Richmond S. Digital imaging of cephalometric radiography, part 1: advantages and limitations of digital imaging. Angle Orthod 1996;66(1):37-42.

Forsyth DB, Shaw WC, Richmond S, Roberts CT. Digital imaging of cephalometric radiographs, part 2: image quality. Angle Orthod 1996, 66(1):43-50.

Reichl P, Farman AG, Scarfe WC, Goldsmith LJ. RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands. Angle Orthod 1996;66(1):65-72.

Digitizer
Tourne LPM. Accuracy of a commercially available digitizer: A new method for assessment of errors in linearity. Angle Orthod 1996;66(6):433-440.

E

Early correction
Chong Y-H, Ive JC, Artun J. Changes following the use of protraction headgear for early correction of Class III malocclusion. Angle Orthod 1996;66(5):351-362.

Ectopic
Silva Filho OG, Albuquerque MVP, Kurol J. Ectopic eruption of maxillary first permanent molars in children with cleft lip. Angle Orthod 1996;66(5):373-380.

Electromyography
Miyamoto K, Ishizuka Y, Tanne K. Changes in masseter muscle activity during orthodontic treatment evaluated by a 24-hour EMG system. Angle Orthod 1996;66(3):223-228.

Error
Tourne LPM. Accuracy of a commercially available digitizer: A new method for assessment of errors in linearity. Angle Orthod 1996;66(6):433-440.

Esthetics
Grubb JE, Smith T, Sinclair P. Clinical and scientific applications/advances in video imaging. Angle Orthod 1996;66(6):407-416.

Extractions
Basdra EK, Stellzig A, Komposch G. Extraction of maxillary second molars in the treatment of Class II malocclusion. Angle Orthod 1996;66(4):287-292.

F

Facebow
Hicks ST, Wood DP. Recording condylar movement with two facebow systems. Angle Orthod 1996;66(4):293-300.

Facial animation
Trotman CA, Gross MM, Moffatt K. Reliability of a three-dimensional method for measuring facial animation: A case report. Angle Orthod 1996;66(3):195-198.

Facial balance
Nanda R, Ghosh J, Bazakidou E. Three-dimensional facial analysis using a video imaging system. Angle Orthod 1996;66(3):181-188.

Facial esthetics
Giddon DB, Sconzo R, Kinchen JA, Evans CA. Quantitative comparison of computerized discrete and animated profile preferences. Angle Orthod 1996;66(6):441-448.

Facial features
Keeling SD, McGorray S, Wheeler TT, King GJ. Imprecision in orthodontic diagnosis: Reliability of clinical measures of malocclusion. Angle Orthod 1996;66(5):381-392.

Facial motion
Gross MM, Trotman C-A, Moffatt KS. A comparison of three-dimensional and two-dimensional analyses of facial motion. Angle Orthod 1996;66(3):189-194.

Facial type
Handelman CS. The anterior alveolus: its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae. Angle Orthod 1996;66(2):95-110.

Filtration
Reichl P, Farman AG, Scarfe WC, Goldsmith LJ. RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands. Angle Orthod 1996;66(1):65-72.

Finite element analysis
Tanne K, Matsubara S. Association between the direction of orthopedic headgear force and sutural responses in the nasomaxillary complex. Angle Orthod 1996;66(2):125-130.

Fluorides
Damon PL, Bishara SE, Olsen ME, Jakobsen JR. Effects of fluoride application on shear bond strength of orthodontic brackets. Angle Orthod 1996;66(1):61-64.

Force direction
Tanne K, Matsubara S. Association between the direction of orthopedic headgear force and sutural responses in the nasomaxillary complex. Angle Orthod 1996;66(2):125-130.

Friction
Taylor NG, Ison K. Frictional resistance between orthodontic brackets and archwires in the buccal segments. Angle Orthod 1996;66(3):215-222.

G

Gender
Braun S, Hnat WP, Freudenthaler JW, Marcotte MR, Hönigle K, Johnson BE. A study of maximum bite force during growth and development. Angle Orthod 1996;66(4):261-264.

Genetic etiology
Chattopadhyay A, Srinivas K. Transposition of teeth and genetic etiology. Angle Orthod 1996;66(2):147-152.

Genioglossus muscle
Ono T, Lowe AA, Ferguson KA, Fleetham JA. A tongue retaining device and sleep-state genioglossus muscle activity in patients with obstructive sleep apnea. Angle Orthod 1996;66(4):273-280.

Glass ionomer
Miller JR, Mancl L, Arbuckle G, Baldwin J, Phillips RW. A three-year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets. Angle Orthod 1996;66(4):309-312.

Wood DP, Paleczny GJ, Johnson LN. The effect of sandblasting on the retention of orthodontic bands. Angle Orthod 1996;66(3):207-214.

Growth
Taylor M, Hans MG, Strohl KP, Nelson S, Broadbent. Soft tissue growth of the oropharynx. Angle Orthod 1996;66(5):393-400.

Growth and development
Braun S, Hnat WP, Freudenthaler JW, Marcotte MR, Hönigle K, Johnson BE. A study

Subject Index

of maximum bite force during growth and development. Angle Orthod 1996;66(4):261-264.

H

Headgear
Zentner A, Sergl HG, Filippidis G. A holographic study of variations in bone deformation resulting from different headgear forces in a macerated human skull. Angle Orthod 1996;66(6):463-472.

Holography
Zentner A, Sergl HG, Filippidis G. A holographic study of variations in bone deformation resulting from different headgear forces in a macerated human skull. Angle Orthod 1996;66(6):463-472.

Hypodontia
Peck S, Peck L, Kataja M. Site-specificity in subjects with maxillary canine malpositions mechanics. Angle Orthod 1996;66(6):473-476.

I

Iatrogenic loss
Handelman CS. The anterior alveolus: its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae. Angle Orthod 1996;66(2):95-110.

Identification error
Major PW, Johnson DE, Hesse KL, Glover KE. Effect of head orientation on posterior anterior cephalometric landmark identification. Angle Orthod 1996;66(1):51-60.

Image processing
Reichl P, Farman AG, Scarfe WC, Goldsmith LJ. RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands. Angle Orthod 1996;66(1):65-72.

Image quality
Forsyth DB, Shaw WC, Richmond S, Roberts CT. Digital imaging of cephalometric radiographs, part 2: image quality. Angle Orthod 1996, 66(1):43-50.

Imaging systems
Nanda R, Ghosh J, Bazakidou E. Three-dimensional facial analysis using a video imaging system. Angle Orthod 1996;66(3):181-188.

Impacted canine
Rajic S, Muretic Z, Percac S. Impacted canine in a prehistoric skull. Angle Orthod 1996;66(6):477-480.

Implants
Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Inflammation
Kehoe MJ, Cohen SM, Zarrinnia K, Cowan A. The effect of acetaminophen, ibuprofen, and misoprostol on prostaglandin E2 systhesis and the degree and rate of orthodontic tooth movement. Angle Orthod 1996;66(5):339-350.

Informed consent
Grubb JE, Smith T, Sinclair P. Clinical and scientific applications/advances in video imaging. Angle Orthod 1996;66(6):407-416.

Interproximal stripping
Steyn CL, Harris AMP, du Preez RJ. Anterior arch circumference adjustment - how much?. Angle Orthod 1996;66(6):457-462.

K

Kappa statistics
Keeling SD, McGorray S, Wheeler TT, King GJ. Imprecision in orthodontic diagnosis: Reliability of clinical measures of malocclusion. Angle Orthod 1996;66(5):381-392.

L

Landmark reliability
Major PW, Johnson DE, Hesse KL, Glover KE. Effect of head orientation on posterior anterior cephalometric landmark identification. Angle Orthod 1996;66(1):51-60.

Laser
Thomas BW, Hook CR, Draughn RA. Laser-aided degradation of composite resin. Angle Orthod 1996;66(4):281-286.

Ligation
Taylor NG, Ison K. Frictional resistance between orthodontic brackets and archwires in the buccal segments. Angle Orthod 1996;66(3):215-222.

Linearity
Tourne LPM. Accuracy of a commercially available digitizer: A new method for assessment of errors in linearity. Angle Orthod 1996;66(6):433-440.

Lip pressure
Moawad MI, Shellhart WC, Matheny J, Paterson RL, Hicks EP. Lip adaptation to simulated dental arch expansion. Part 2: One week of simulated expansion. Angle Orthod 1996;66(4):255-260.

Lip pressure
Shellhart WC, Moawad MI, Paterson RL, Matheny J. Lip adaptation to simulated dental arch expansion. Part 1: Reliability and precision of two lip pressure measurement mechanisms. Angle Orthod 1996;66(4):249-254.

Long-term stability
Årtun J, Garol JD, Little RM. Long-term stability of mandibular incisors following successful treatment of Class II, Division 1, malocclusions. Angle Orthod 1996;66(3):229-238

Longitudinal
Bishara SE, Treder JE, Damon P, Olsen M Changes in the dental arches and dentition between 25 and 45 years of age. Angle Orthod 1996;66(6):417-422.

M

Macerated skull
Zentner A, Sergl HG, Filippidis G. A holographic study of variations in bone deformation resulting from different headgear forces in a macerated human skull. Angle Orthod 1996;66(6):463-472.

Malocclusion
Cohlmia JT, Ghosh J, Sinha PK, Nanda RS, Currier GF. Tomographic assessment of temporomandibular joints in patients with malocclusion. Angle Orthod 1996;66(1):27-36.

Mandible
Lambrechts AHD, Harris AMP, Rossouw PE, Stander I. Dimensional differences in the craniofacial morphologies of groups with deep and shallow mandibular antegonial notching Angle Orthod 1996;66(4):265-272.

Masseter muscle activity
Miyamoto K, Ishizuka Y, Tanne K. Changes in masseter muscle activity during orthodontic treatment evaluated by a 24-hour EMG system Angle Orthod 1996;66(3):223-228.

Maxillary second molars
Basdra EK, Stellzig A, Komposch G. Extraction of maxillary second molars in the treatment of Class II malocclusion Angle Orthod 1996;66(4):287-292.

Metallic implants
Baumrind S, Ben-Bassat Y, Bravo LA, Curry S, Korn EL. Partitioning the components of maxillary tooth displacement by the comparison of data from three cephalometric superimpositions. Angle Orthod 1996;66(2):111-124.

Midadulthood
Bishara SE, Treder JE, Damon P, Olsen M. Changes in the dental arches and dentition between 25 and 45 years of age. Angle Orthod 1996;66(6):417-422.

Missing teeth
Steyn CL, Harris AMP, du Preez RJ. Anterior arch circumference adjustment - how much? Angle Orthod 1996;66(6):457-462.

Molar
Filho OGS, Albuquerque MVP, Kurol J. Ectopic eruption of maxillary first permanent molars in children with cleft lip. Angle Orthod 1996;66(5):373-380.

Morphing
Grubb JE, Smith T, Sinclair P. Clinical and scientific applications/advances in video imaging. Angle Orthod 1996;66(6):407-416.

Morphologic malocclusion
Keeling SD, McGorray S, Wheeler TT, King GJ. Imprecision in orthodontic diagnosis: Reliability of clinical measures of malocclusion. Angle Orthod 1996;66(5):381-392.

Multibracket appliance
Miyamoto K, Ishizuka Y, Tanne K. Changes in masseter muscle activity during orthodontic treatment evaluated by a 24-hour EMG system Angle Orthod 1996;66(3):223-228.

N

Nd: YAG
Thomas BW, Hook CR, Draughn RA. Laser-aided degradation of composite resin. Angle Orthod 1996;66(4):281-286.

Nonextraction
Deguchi T, Kitsugi A. Stability of changes associated with chin cup treatment. Angle Orthod 1996;66(2):139-146.

Nonsteroidal anti-inflammatory drugs
Kehoe MJ, Cohen SM, Zarrinnia K, Cowan A. The effect of acetaminophen, ibuprofen, and misoprostol on prostaglandin E2 systhesis and the degree and rate of orthodontic tooth movement. Angle Orthod 1996;66(5):339-350.

O

Obstructive sleep apnea
Ono T, Lowe AA, Ferguson KA, Fleetham JA. A tongue retaining device and sleep-state genioglossus muscle activity in patients with obstructive sleep apnea. Angle Orthod 1996;66(4):273-280.

Opinion Article
Cordray FE. Opinion Article: Centric relation treatment and articulator mountings in orthodontics. Angle Orthod 1996;66(2):153-158.

Oropharynx
Taylor M, Hans MG, Strohl KP, Nelson S, Broadbent. Soft tissue growth of the oropharynx. Angle Orthod 1996;66(5):393-400.

Orthodontic brackets
Bishara SE, Damon PL, Olsen ME, Jakobsen JR. Effect of applying chlorhexidine antibacterial agent on the shear bond strength of orthodontic brackets. Angle Orthod 1996;66(4):313-316.

Thomas BW, Hook CR, Draughn RA.Laser-aided degradation of composite resin. Angle Orthod 1996;66(4):281-286.

Orthodontic tooth movement
Miyamoto K, Ishizuka Y, Tanne K. Changes in masseter muscle activity during orthodontic treatment evaluated by a 24-hour EMG system. Angle Orthod 1996;66(3):223-228.

Orthodontics
Reichl P, Farman AG, Scarfe WC, Goldsmith LJ. RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands. Angle Orthod 1996;66(1):65-72.

Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Orthopedic and orthodontic tooth movement.
Baumrind S, Ben-Bassat Y, Bravo LA, Curry S, Korn EL. Partitioning the components of maxillary tooth displacement by the comparison of data from three cephalometric superimpositions. Angle Orthod 1996;66(2):111-124.

Orthopedic effects
Zentner A, Sergl HG, Filippidis G. A holographic study of variations in bone deformation resulting from different headgear forces in a macerated human skull. Angle Orthod 1996;66(6):463-472.

Orthopedic headgear therapy
Tanne K, Matsubara S. Association between the direction of orthopedic headgear force and sutural responses in the nasomaxillary complex. Angle Orthod 1996;66(2):125-130.

Subject Index

Overjet correction
Steyn CL, Harris AMP, du Preez RJ. Anterior arch circumference adjustment - how much?. Angle Orthod 1996;66(6):457-462.

P

Palatal rugae
Bailey LJ, Esmailnejad A, Almeida MA. Stability of the palatal rugae as landmarks for analysis of dental casts in extraction and nonextraction cases. Angle Orthod 1996;66(1):73-78.

Paleopathology
Rajic S, Muretic Z, Percac S. Impacted canine in a prehistoric skull. Angle Orthod 1996;66(6):477-480.

Permanent
Bishara SE, Treder JE, Damon P, Olsen M. Changes in the dental arches and dentition between 25 and 45 years of age. Angle Orthod 1996;66(6):417-422.

Phosphoric acid
Steffen JM. The effects of soft drinks on etched and sealed enamel. Angle Orthod 1996;66(6):449-456.

Posterior anterior cephalometrics
Major PW, Johnson DE, Hesse KL, Glover KE. Effect of head orientation on posterior anterior cephalometric landmark identification. Angle Orthod 1996;66(1):51-60.

Posttreatment changes
Chong Y-H, Ive JC, Artun J. Changes following the use of protraction headgear for early correction of Class III malocclusion. Angle Orthod 1996;66(5):351-362.

Precision
Shellhart WC, Moawad MI, Paterson RL, Matheny J. Lip adaptation to simulated dental arch expansion. Part 1: Reliability and precision of two lip pressure measurement mechanisms. Angle Orthod 1996;66(4):249-254.

Prostaglandin E2
Kehoe MJ, Cohen SM, Zarrinnia K, Cowan A. The effect of acetaminophen, ibuprofen, and misoprostol on prostaglandin E2 systhesis and the degree and rate of orthodontic tooth movement. Angle Orthod 1996;66(5):339-350.

Protraction headgear
Chong Y-H, Ive JC, Artun J. Changes following the use of protraction headgear for early correction of Class III malocclusion. Angle Orthod 1996;66(5):351-362.

Psychophysics
Giddon DB, Sconzo R, Kinchen JA, Evans CA. Quantitative comparison of computerized discrete and animated profile preferences. Angle Orthod 1996;66(6):441-448.

Quadrilateral analysis
Kao CT, Chen FM, Lin TY, Peng CH, Huang TH. The morphologic structure of the openbite in adult Taiwanese. Angle Orthod 1996;66(3):199-206.

R

Radiographic analysis
Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Rapid maxillary expansion
Ceylan I, Oktay H, Demirci M. The effect of rapid maxillary expansion on conductive hearing loss. Angle Orthod 1996;66(4):301-308.

Rate of tooth movement
Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Reliability
Keeling SD, McGorray S, Wheeler TT, King GJ. Imprecision in orthodontic diagnosis: Reliability of clinical measures of malocclusion. Angle Orthod 1996;66(5):381-392.

Shellhart WC, Moawad MI, Paterson RL, Matheny J. Lip adaptation to simulated dental arch expansion. Part 1: Reliability and precision of two lip pressure measurement mechanisms. Angle Orthod 1996;66(4):249-254.

Trotman CA, Gross MM, Moffatt K. Reliability of a three-dimensional method for measuring facial animation: A case report. Angle Orthod 1996;66(3):195-198.

Repeatability
Shellhart WC, Moawad MI, Paterson RL, Matheny J. Lip adaptation to simulated dental arch expansion. Part 1: Reliability and precision of two lip pressure measurement mechanisms. Angle Orthod 1996;66(4):249-254.

Retention
Deguchi T, Kitsugi A. Stability of changes associated with chin cup treatment. Angle Orthod 1996;66(2):139-146.

Reverse headgear
Chen KF, So LLY. Sagittal skeletal and dental changes of reverse headgear treatment in Chinese boys with complete unilateral cleft lip and palate. Angle Orthod 1996;66(5):363-372.

ROC analysis
Reichl P, Farman AG, Scarfe WC, Goldsmith LJ. RVG-S, VIXA, and Ektaspeed film in detection of proximal enamel defects under orthodontic bands. Angle Orthod 1996;66(1):65-72.

S

Sagittal skeletal and dental changes
Chen KF, So LLY. Sagittal skeletal and dental changes of reverse headgear treatment in Chinese boys with complete unilateral cleft lip and palate. Angle Orthod 1996;66(5):363-372.

Sandblasting
Wood DP, Paleczny GJ, Johnson LN. The effect of sandblasting on the retention of orthodontic bands. Angle Orthod 1996;66(3):207-214.

SEM
Steffen JM. The effects of soft drinks on etched and sealed enamel. Angle Orthod 1996;66(6):449-456.

Shear strength
Damon PL, Bishara SE, Olsen ME, Jakobsen JR. Effects of fluoride application on shear bond strength of orthodontic brackets. Angle Orthod 1996;66(1):61-64.

Skeletal Class III
Deguchi T, Kitsugi A. Stability of changes associated with chin cup treatment. Angle Orthod 1996;66(2):139-146.

Skeletal displacement
Zentner A, Sergl HG, Filippidis G. A holographic study of variations in bone deformation resulting from different headgear forces in a macerated human skull. Angle Orthod 1996;66(6):463-472.

Sleep
Ono T, Lowe AA, Ferguson KA, Fleetham JA. A tongue retaining device and sleep-state genioglossus muscle activity in patients with obstructive sleep apnea. Angle Orthod 1996;66(4):273-280.

Soft tissue
Taylor M, Hans MG, Strohl KP, Nelson S, Broadbent BH. Soft tissue growth of the oropharynx. Angle Orthod 1996;66(5):393-400.

Soft-tissue analysis
Nanda R, Ghosh J, Bazakidou E. Three-dimensional facial analysis using a video imaging system. Angle Orthod 1996;66(3):181-188.

Space analysis
Steyn CL, Harris AMP, du Preez RJ. Anterior arch circumference adjustment - how much? Angle Orthod 1996;66(6):457-462.

Space closure
Roberts WE, Arbuckle GR, Analoui M. Rate of mesial translation of mandibular molars using implant-anchored mechanics. Angle Orthod 1996;66(5):331-338.

Stability
Bailey LJ, Esmailnejad A, Almeida MA. Stability of the palatal rugae as landmarks for analysis of dental casts in extraction and nonextraction cases. Angle Orthod 1996;66(1):73-78.

Sullivan TC, Turpin DL, Årtun J.A postretention study of patients presenting with a maxillary median diastema. Angle Orthod 1996;66(2):131-138.

Survival analysis
Miller JR, Mancl L, Arbuckle G, Baldwin J, Phillips RW. A three-year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets. Angle Orthod 1996;66(4):309-312.

T

Temporomandibular joint disorder
Mimura H, Deguchi T. Case Report SS: A patient with temporomandibular joint disorders. Angle Orthod 1996;66(1):21-26.

Three-dimensional
Gross MM, Trotman C-A, Moffatt KS. A comparison of three-dimensional and two-dimensional analyses of facial motion. Angle Orthod 1996;66(3):189-194.

Trotman CA, Gross MM, Moffatt K. Reliability of a three-dimensional method for measuring facial animation: A case report. Angle Orthod 1996;66(3):195-198.

Three-dimensional facial analysis
Nanda R, Ghosh J, Bazakidou E. Three-dimensional facial analysis using a video imaging system. Angle Orthod 1996;66(3):181-188.

Tongue retaining device
Ono T, Lowe AA, Ferguson KA, Fleetham JA. A tongue retaining device and sleep-state genioglossus muscle activity in patients with obstructive sleep apnea. Angle Orthod 1996;66(4):273-280.

Tooth abnormalities
Peck S, Peck L, Kataja M. Site-specificity in subjects with maxillary canine malpositions mechanics. Angle Orthod 1996;66(6):473-476.

Tooth eruption
Silva Filho OG, Albuquerque MVP, Kurol J. Ectopic eruption of maxillary first permanent molars in children with cleft lip. Angle Orthod 1996;66(5):373-380.

Tooth eruption, ectopic
Peck S, Peck L, Kataja M. Site-specificity in subjects with maxillary canine malpositions mechanics. Angle Orthod 1996;66(6):473-476.

Tooth movement
Kehoe MJ, Cohen SM, Zarrinnia K, Cowan A. The effect of acetaminophen, ibuprofen, and misoprostol on prostaglandin E2 systhesis and the degree and rate of orthodontic tooth movement. Angle Orthod 1996;66(5):339-350.

Transposition
Chattopadhyay A, Srinivas K. Transposition of teeth and genetic etiology. Angle Orthod 1996;66(2):147-152.

Treatment changes
Chong Y-H, Ive JC, Artun J. Changes following the use of protraction headgear for early correction of Class III malocclusion. Angle Orthod 1996;66(5):351-362.

Two-dimensional
Gross MM, Trotman C-A, Moffatt KS. A comparison of three-dimensional and two-dimensional analyses of facial motion. Angle Orthod 1996;66(3):189-194.

U

Unilateral complete cleft lip and palate
Chen KF, So LLY. Sagittal skeletal and dental changes of reverse headgear treatment in Chinese boys with complete unilateral cleft lip and palate. Angle Orthod 1996;66(5):363-372.

V

Video imaging
Grubb JE, Smith T, Sinclair P. Clinical and scientific applications/advances in video imaging. Angle Orthod 1996;66(6):407-416.